

JLU

NEUE WEGE. SEIT 1607.

JUSTUS-LIEBIG-
UNIVERSITÄT
GIESSEN



MASTER OF SCIENCE (M.SC.)

MIND, BRAIN AND BEHAVIOR



MASTER OF SCIENCE

MIND, BRAIN AND BEHAVIOR



Understanding human perception and behavior is one of the greatest challenges facing science. Fueled by recent advances in artificial intelligence (AI), there is a growing need in numerous application areas for expertise in methods and models addressing this mystery.

Mind, Brain and Behavior is an international study program taught in English language at the University of Giessen, Germany.

» WE ARE TRAINING THE NEXT GENERATION FOR RESEARCH AND APPLICATION IN COGNITIVE AND BEHAVIORAL NEUROSCIENCES. «
PROF. ROLAND W. FLEMING, PHD

The program is designed to provide essential skills for a career in academia or industry in the fields of Psychology, Cognitive Neuroscience or the Behavioral Sciences, and combines theoretical and hands-on methods courses. Theoretical courses on selected topics are taught by renowned experts. Hands on courses cover a range of key empirical methods for measuring and modelling neural and behavioral processes of perception, action, and cognition.

COURSES AND TEACHERS

Theoretical courses cover multi-sensory perception, action and cognition, and their development during infancy and childhood, as well as the perception of objects, color and materials.



Hands-on courses cover functional magnetic resonance imaging, electroencephalography (EEG), measurements of eye and body movements, computer graphics, virtual reality (VR), computational modelling and machine learning.

An internship and elective modules help students to shape their professional profile according to their preferences. These modules for example include Quantitative Foundations of AI, Creativity and Entrepreneurship, Technology and Innovation Management, or Scientific Programming and Data Analysis.

Professors include the **renowned scientists** Katja Dörschner-Boyaci, Katja Fiehler, Roland W. Fleming, Karl Gegenfurtner, and Gudrun Schwarzer.



PARTNERS AND FUNDING

Understanding human perception and behavior is a rapidly growing need in **numerous fields of application**. The program will prepare for a career in behavioral measurement, human-machine interface design, VR, autonomous driving, cognitive robotics, AI, machine learning, and other domains.

JLU Giessen is one of only a few institutions in Germany to have a Collaborative Research Centre in Psychology (Cardinal Mechanisms of Perception) and is consistently ranked among the top places for vision science worldwide. We have a network of close collaboration partners in **academia** both nationally (e.g., University of Marburg, Technical University of Darmstadt) and internationally (e.g., York University in Toronto, Western University in London, Ontario, and Queen's University in Kingston). Our **industry** partners are interested in core topics of the study program, including VR, EEG, eye movements and material perception:





REQUIREMENTS AND APPLICATION

To apply for the Master of Science Mind, Brain and Behavior you need to have completed a **Bachelor's degree** in Behavioral Sciences, Biology, Cognitive Sciences, Computer Science, Data Science, Linguistics, Movement Sciences, Neuroscience, Psychology or Physics. For other Bachelor's degrees, the examination board will individually check whether they meet the entry requirements.

» WE ARE EXCITED TO WELCOME STUDENTS FROM ALL OVER THE WORLD SHARING OUR ENTHUSIASM FOR THE HUMAN MIND, BRAIN AND BEHAVIOR. « PROF. DR. KATJA FIEHLER

Your **English language proficiency** needs to be at the CEFR level B2 or higher. It can be advantageous to include other relevant qualifications (e.g. professional experience in the fields of Neurosciences or Behavioral Sciences, or an internship of at least 8 weeks in the same fields beyond your Bachelor's degree's requirements).

No study fees are charged for this study program. However, students have to pay about 300 EUR per semester for administration and a public transport ticket. Please visit the following homepage for deadlines and other details:

<https://www.uni-giessen.de/studium/master/mbb>

JUSTUS-LIEBIG-



UNIVERSITÄT
GIESSEN

CENTRAL STUDENT ADVISORY SERVICE

Goethestr. 58, 35390 Giessen

Open consultation hours

Mon and Fri 9.00-12.00 am, Tue and Thu 3.00-5.00 pm

Telephone consultation hours

Mon, Tue and Thu, Fri 1.00-3.00 pm

Telephone: +49 641 99 16223 (via Call Justus)

e-mail: zsb@uni-giessen.de

Website: www.uni-giessen.de/studium/zsb

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More information at

<https://www.uni-giessen.de/studium/master/mbb>



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